

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A ~~projector comprising~~projector, comprising:
a light ~~source device~~source;
a color separating optical system ~~for separating~~to separate a light flux emitted from the light source ~~device~~ into a plurality of color light components;
a plurality of optical modulation devices ~~for modulating~~to modulate the color light components separated by the color separating optical system according to image information, respectively;
a color combining optical system ~~for combining~~to combine optical images modulated by the plurality of optical modulation devices; and
a projection optical system ~~for enlarging and projecting~~to enlarge and project the optical images combined by the color combining optical system,
_____ ~~wherein~~ an optical filter, ~~for reflecting~~to reflect predetermined spectral components in the light flux, ~~is being~~ arranged at a position where an angle by which the light flux expands falls within 20° with respect to an illumination optical axis of the light flux on an optical path from the light source ~~device~~ to a light flux-emitting surface of the projection optical system.
2. (Currently Amended) The projector according to Claim 1, further comprising:
a case ~~for housing~~to house a plurality of optical components disposed on the optical path of the light flux,
_____ ~~wherein~~ the case ~~comprises~~ including a moving mechanism ~~for moving~~to move the optical filter into and out of the optical path.
3. (Currently Amended) The projector according to ~~Claim 1 or 2~~Claim 1,

~~wherein~~ the optical filter is being disposed between the light source ~~device~~ and the color separating optical system.

4. (Currently Amended) The projector according to Claim 3, further comprising:
a uniform-illumination optical system disposed between the light source device and the color separating optical system ~~for dividing~~ to divide the light flux emitted from the light source device into a plurality of partial light fluxes and overlapping the respective partial light fluxes on an image forming area of the optical modulation device,
_____ ~~wherein~~ the optical filter is being disposed in the uniform-illumination optical system.

5. (Currently Amended) The projector according to ~~Claim 1 or 2,~~ Claim 1,
~~wherein~~ the optical filter is being disposed in the color separating optical system.

6. (Currently Amended) The projector according to Claim 5,
~~wherein~~ the color separating optical system ~~comprises~~ including a first color light separating optical element ~~for separating~~ to separate the light emitted from the light source ~~device~~ into a first color light component and other color light components, and a second color light separating optical element ~~for separating~~ to separate the other color light components separated by the first color light separating optical element into a second color light component and a second color light component, and

~~wherein~~ the optical filter is being disposed between the first color light separating optical element and the second color light separating optical element.

7. (Currently Amended) The projector according to ~~Claim 1 or 2,~~ Claim 1,
~~wherein~~ the optical filter is being disposed between the color combining optical system and the projection optical system.

8. (Currently Amended) A ~~projector comprising:~~ projector, comprising:

a light ~~source device~~; source;

a color separating optical system ~~for separating~~ to separate a light flux emitted from the light source ~~device~~ into a plurality of color light components;

a plurality of optical modulation devices ~~for modulating~~ to modulate the plurality of light fluxes separated by the color separating optical system according to image information, ~~respectively~~, respectively;

a color combining optical system ~~for combining~~ to combine optical images modulated by the plurality of optical modulation ~~devices~~, and devices;

a projection optical system ~~for enlarging and projecting~~ to enlarge and project the optical images combined by the color combining optical ~~system~~, system;

~~wherein the projector further comprises:~~

a case ~~for housing~~ to house a plurality of optical components, disposed on an optical path of the light flux;

an optical filter ~~for reflecting~~ to reflect predetermined spectral components in the light flux; and

a moving mechanism ~~for moving~~ to move the optical filter into and out of the optical path by rotating the optical filter inside the case.

9. (Currently Amended) The projector according to Claim 8,

~~wherein the moving mechanism rotates~~ rotating the optical filter between a position at which the light flux passes through and a position at which the light flux does not pass through along a side wall on the optical path in the case.

10. (Currently Amended) The projector according to ~~Claim 8 or 9~~, Claim 8, further comprising:

a uniform-illumination optical system disposed between the light source ~~device~~ and the color separating optical system ~~for dividing~~ to divide the light flux emitted

from the light source ~~device~~ into a plurality of partial light fluxes and overlapping the respective partial light fluxes on an image forming area of the optical modulation device,

~~wherein~~ the optical filter is being disposed in the uniform-illumination optical system.

11. (Currently Amended) The projector according to ~~Claim 8 or 9,~~ Claim 8,
~~wherein~~ the optical filter is being disposed in the color separating optical system.

12. (Currently Amended) The projector according to Claim 11,
~~wherein~~ the color separating optical system ~~comprises~~ includes:
a first color light separating optical element ~~for separating to separate~~ the light emitted from the light source device into a first color light component and other color light components; and

a second color light separating optical element ~~for separating to separate~~ the other color light components separated by the first color light separating optical element into a second color light component and a third color light component, and

~~wherein~~ the optical filter is being disposed between the first color light separating optical element and the second color light separating optical element.

13. (Currently Amended) The projector according to ~~any one of Claims 8 to 11~~ Claim 8,

~~wherein~~ the case ~~has~~ having a plane substantially parallel to a plane formed by the ~~illumination~~ an illumination optical axis, ~~axis of the optical path~~,

~~wherein~~ the moving mechanism ~~comprises~~ including a rotating portion rotatably supported by the plane of the case, and

~~wherein~~ the optical filter is being retained in the rotating portion and ~~moves~~ moving according to rotational movement of the rotating portion.

14. (Currently Amended) The projector according to Claim 13,

~~wherein~~ the optical filter is being mounted in a filter frame having a retaining portion protruded from the optical filter,

~~wherein~~ the rotating portion ~~has~~ having an engagement hole engaged with the retaining portion in the filter frame, and

~~wherein~~ a guide groove is being disposed between the optical filter and the rotating portion ~~for guiding to guide~~ the movement of the optical filter by guiding the retaining portion.

15. (Currently Amended) A ~~projector comprising~~ projector, comprising:

a light ~~source device~~ source;

a color separating optical system ~~for separating to separate~~ a light flux emitted from the light source ~~device~~ into a plurality of color light components;

a plurality of optical modulation devices ~~for modulating to modulate~~ the plurality of color light components separated by the color separating optical system according to image information, respectively;

a color combining optical system ~~for combining to combine~~ optical images modulated by the plurality of optical modulation devices; ~~and~~

a projection optical system ~~for enlarging and projecting to enlarge and project~~ the optical images combined by the color combining optical system,

~~wherein the projector further comprises:~~

an optical filter ~~for reflecting to reflect~~ predetermined spectral components in the light flux; and

a moving mechanism ~~for moving to move~~ the optical filter into and out of the optical path, ~~and~~

~~wherein~~ the moving mechanism ~~slides-sliding~~ the optical filter out of the optical path by allowing a first side, which is closer to an optical component downstream in the optical path from the optical filter and remoter from an optical component upstream in the optical path from the optical filter, to move upstream in the optical path and by allowing a second opposite side to be positioned downstream in the optical path, from among the two sides of the optical filter perpendicular to a plane formed by an illumination optical axis.

16. (Currently Amended) The projector according to Claim 15,

~~wherein~~ the moving mechanism ~~comprises~~ including:

a first shaft ~~for supporting~~ to support a portion of a side different from the first and second sides of the optical filter and disposed in the vicinity of the first side;

a second shaft ~~for supporting~~ to support a portion of the side different from the first and second sides of the optical filter and closer to the second side from the first side;

a first guide groove ~~for guiding~~ to guide the first shaft so that the first shaft is movable along a direction substantially parallel to the illumination optical axis; and

a second guide groove ~~for guiding~~ to guide the second shaft so that the second shaft is movable along a direction which is not parallel to the illumination optical axis.

17. (Currently Amended) The projector according to Claim 16,

~~wherein~~ the moving mechanism ~~comprises~~ including a rotating portion rotatably supported on a plane parallel to the plane formed by the illumination optical axis, and

~~wherein~~ the first shaft and the second shaft ~~are-being~~ retained in the rotating portion through the first guide groove and the second guide groove, respectively.

18. (Currently Amended) A ~~projector comprising~~ projector, comprising:

a light source device;

a color separating optical system ~~for separating~~ to separate a light flux emitted from the light source device into a plurality of color light components;

a plurality of optical modulation devices ~~for modulating~~ to modulate the plurality of color light components separated by the color separating optical system according to image information, respectively;

a color combining optical system ~~for combining~~ to combine optical images modulated by the plurality of optical modulation devices; and

a projection optical system ~~for enlarging and projecting~~ to enlarge and project the optical images combined by the color combining optical system,

~~wherein the projector further comprises:~~

an optical filter ~~for reflecting~~ to reflect predetermined spectral components in the light flux; and

a moving mechanism ~~for moving~~ to move the optical filter into and out of the optical path, and

~~wherein the moving mechanism moves~~ moving the optical filter out of the optical path, by allowing an opposite side to be rotated using, as a shaft, the vicinity of a side which is closer to an optical component downstream in the optical path from the optical filter and remoter from an optical component upstream in the optical path from the optical filter, from among the two sides of the optical filter perpendicular to a plane formed by an illumination optical axis.

19. (Currently Amended) The projector according to ~~any one of Claims 15 to 18~~ Claim 15,

~~wherein the optical filter is being~~ disposed between the light source device and the color separating optical system.

20. (Currently Amended) The projector according to Claim 19, further comprising:

a uniform-illumination optical system disposed between the light source device and the color separating optical system ~~for dividing~~to divide the light flux emitted from the light source device into a plurality of partial light fluxes and overlapping the respective partial light fluxes on an image forming area of the optical modulation device,

~~wherein~~ the moving mechanism ~~is~~being disposed in the uniform-illumination optical system.

21. (Currently Amended) The projector according to ~~any one of Claims 15 to 18,~~Claim 15,

~~wherein~~ the optical filter ~~is~~being disposed in the color separating optical system.

22. (Currently Amended) The projector according to Claim 21,

~~wherein~~ the color separating optical system ~~comprises~~including a first color light separating optical element ~~for separating~~to separate the light emitted from the light source device into a first color light component and other color light components, and a second color light separating optical element ~~for separating~~to separate the other color light components separated by the first color light separating optical element into a second color light component and a second color light component, and

—————~~wherein~~ the optical filter ~~is~~being disposed between the first color light separating optical element and the second color light separating optical element.

23. (Currently Amended) The projector according to ~~any one of Claims 15 to 18,~~Claim 15,

~~wherein~~ the optical filter ~~is~~being disposed between the color combining optical system and the projection optical system.